

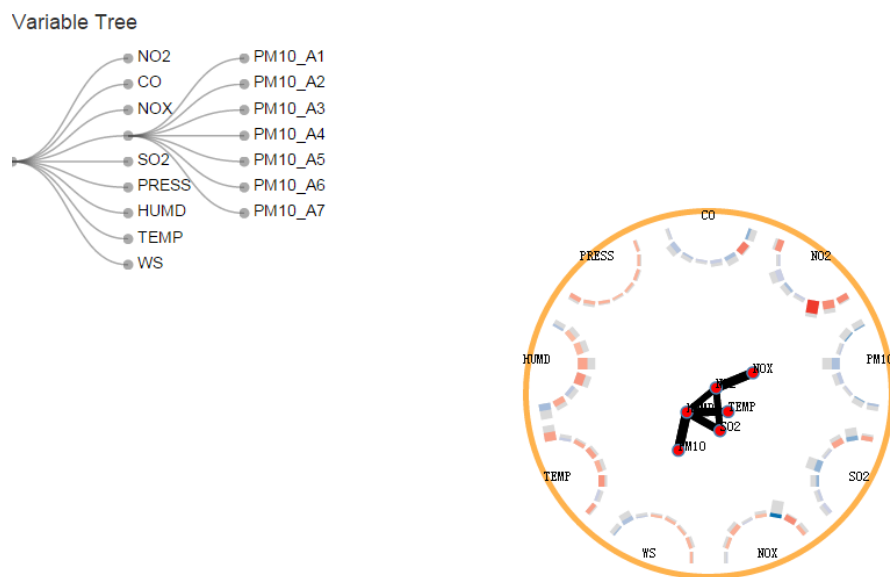
Weekly Report for 2015/08/03-2015/08/09

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Progress

1. TCPTree Project

- 1) Finish the variable tree



I considered the interaction of switch the visualization of variables to the visualization of sensors. Currently, the TCPTreeNode doesn't contain any context of sensor data. I think there are two ways to add this interaction. One is using the variable tree, once the user click on the variable in the tree, the node expands and the TCPTree will show the relation of the sensors under this variable.

The other is adding some context on the TCPTreeNode when the user is interested in one variable, such as, when the mouse is hovering on CO, the relation of the sensors is visualized beside the CO.

2. Revise vis 2015 submission

3. Large Graph Visualization

- 1) Write the design document for relation network visualization

I almost finished the document. But due to lack of data, I can't determine some details of the design, such as attributes of a node (how many attributes and what kind of attributes will a node

have?), types of node in the network, types of edge in the network.

I found a survey of graph clustering methods. This survey introduces many graph clustering algorithm from the perspective of graph structure. There is a method called Markov Cluster Algorithm that released the source code. I think we can try this algorithm first.

Plan

1. TCPTree Project

Finish variable tree.

Finish the control panel and other interactions.

2. Revise vis2015 submission

3. Large Graph

- 1) Finish the design document.
- 2) Find the test data and try voronoi.

Ask Prof. Wu or Liu Zhiqi for the data of Netease, apply the cluster and voronoi plan on the data, and test the performance.